An Annotated Bibliography
of the
Low Temperature Relations of Plants

by

RODNEY BEECHER HARVEY

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Low Temperature Relations of Plants

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INTRODUCTION

The literature of the low temperature relations of plants has been reviewed by many authors. Goeppert discussed quite completely the status of the information up to the time of 1830. The last hundred years has greatly advanced the knowledge of what happens when plants freeze, the conditions for producing hardiness, varietal differences, and the inheritance of hardiness in plants. The relation of changes in chemical constituents to differences in hardiness has been investigated especially during the past decade. Physiology, Physical Chemistry, and Biological Chemistry have done much to explain the behavior of protoplasm on freezing. Numerous theories have been advanced of the causes of freezing injury, some applying to special cases and showing positive correlations between certain single factors and the hardiness of the plants under investigation. There has been a tendency to trace back through the literature of older investigators, confirmatory evidence for certain viewpoints. This has lead to multiplication of reference, for frequently one author quotes that another author stated that an older investigator got certain results. The older results themselves have not been consulted for their exact statement, because in many cases the original articles are not to be found, especially in American libraries. Many references to the literature have been incorrect, and these errors have been copied from one author to another. It was considered to be of considerable importance to the further advancement of research on the low temperature relations of plants to correct errors in citations and to compile as complete a bibliography as possible of every phase intimately related to this subject.

The bibliographies of every available article on this subject have been copied and these used as further sources for new bibliographies. The references of the last few years have been obtained from the bibliographical lists of new literature of the U.S. Bureau of Plant Industry. Compilation of the bibliography has been in progress for more than fifteen years. During the past five years, principal time has been given to checking the citations by obtaining the original article, translating it if necessary, and correcting the form of the citation. The form of citation has been kept as uniform as possible, using the system and abbreviations of the Library of Congress with some modifications. In some cases it has been necessary to Anglicize the characters of the Slavonic languages.

The titles of articles in languages other than English have been translated because not many students read more than three languages. If the title of the article is not indicative of the contents of the article, annotations have been used to indicate briefly the contents.

This bibliography is intended to include many kinds of publications intimately connected with the low temperature relations of plants. Articles on the low temperature relations of animals are included when their perusal will give the student additional information on phases of this relation in plants. Also there has been included the effects of low temperatures on physical and chemical systems when these are of value for interpretation of effects of freezing on plants.

It is hoped that this bibliography is complete enough and free enough from errors to be of value to students in locating citations of the literature of this subject, and that it will so encourage interest in and study of the subject that the research phases may be more quickly advanced.

ACKNOWLEDGMENTS

The author is indebted to many persons for assistance in compiling this bibliography, and for sources of reference.

Dr. A. J. Pieters, Principal Agronomist of the Office of Forage Crop Investigations, checked in the Library of Congress many references which were not available elsewhere. Dr. J. F. Trost, Dr. A. C. Hildreth, Dr. F. H. Steinmetz, Dr. G. E. Steinbauer, and Dr. H. P. Traub, during their graduate years in Horticulture and Physiology at this University, read original articles, translated, and checked many of the references.

The staff of the U. S. Department of Agriculture Library has helped by checking many citations. European references which are not available in the United States were read and checked with the originals during 1927-28 when the author was a fellow of the John Simon Guggenheim Memorial Foundation. The author is indebted to the Institute of Applied Botany, Leningrad, Russia, for check of certain Russian references, and to Cambridge University, England, and to the University of Bonn, Germany, for the use of certain rare and early publications on this subject. Dr. E. Schaffnit of the Institute für Pflanzenkrankheiten, Bonn, freely gave of his time and library facilities during three months in aid of this compilation. Dr. Hans Fitting made available to the author the unusual facilities of his library at the Botanical Institute at Bonn. Dr. N. A. Maximov of Leningrad has helped with checking Russian citations, as have also Mrs. E. Wilde and Mr. S. R. Gevorkiantz of the Lake States Forest Experiment Station at the Minnesota Agricultural Experiment Station. Mrs. Wilde also checked and translated certain Polish, Czech, and Italian references. Miss Harriet W. Sewall, Librarian at University Farm, has checked some of the more difficult citations.

The arduous task of typing the manuscript has been done by Miss Gladys Anderson and Mrs. Irene Hansen of the Department of Plant Pathology, Miss Mary Davis and Miss Marion Wheeler of the Department of Horticulture, and Mrs. W. W. Chase who made copies for the U. S. Dept. of Agriculture. Mr. Clarence Jonk and Mr. R. H. Landon of the Section of Plant Physiology have assisted in checking and in the translations. Dr. Delia Johnson translated the titles from the Scandinavian languages.

The first typing of part of this bibliography was done in 1927. Copies of this list were deposited with the Low Temperature Research Station at Cambridge University, with the Institute für Pflanzenkrankheiten at Bonn, with Dr. N. A. Maximov at the Institute of Applied Botany at Leningrad, and with the Office of Forage Crop Investigations of the U. S. Department of Agriculture. Students at the University of Minnesota have had free use of the citations for more than ten years. Publication of the list is now made with the hope of decreasing the labor of reference to the literature. All citations in this list which are not preceded by an asterisk have been read and checked with the original article to minimize mistakes. Those references marked by an asterisk have been copied from reliable bibliographies or references in articles; and they apparently pertain to the subject, but confirmation has not been possible at this time. Some of these references will be very difficult to find.

The author will be pleased to be advised of omissions, errors, or corrections to be made in the bibliography.

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